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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/733,636	12/12/2003	Soo-Jin Park	P56916	1649
7590 Robert E. Bushnell Suite 300 1522 K Street, N.W. Washington, DC 20005		04/11/2007	EXAMINER DESAI, RITA J	
			ART UNIT 1625	PAPER NUMBER
			MAIL DATE 04/11/2007	DELIVERY MODE PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

A

**Advisory Action**  
**Before the Filing of an Appeal Brief**

Application No.

10/733,636

Applicant(s)

PARK ET AL.

Examiner

Rita J. Desai

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**--The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**

THE REPLY FILED 27 March 2007 FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE.

1. ☒ The reply was filed after a final rejection, but prior to or on the same day as filing a Notice of Appeal. To avoid abandonment of this application, applicant must timely file one of the following replies: (1) an amendment, affidavit, or other evidence, which places the application in condition for allowance; (2) a Notice of Appeal (with appeal fee) in compliance with 37 CFR 41.31; or (3) a Request for Continued Examination (RCE) in compliance with 37 CFR 1.114. The reply must be filed within one of the following time periods:

- a) ☒ The period for reply expires 3 months from the mailing date of the final rejection.  
b) ☐ The period for reply expires on: (1) the mailing date of this Advisory Action, or (2) the date set forth in the final rejection, whichever is later. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of the final rejection.

Examiner Note: If box 1 is checked, check either box (a) or (b). ONLY CHECK BOX (b) WHEN THE FIRST REPLY WAS FILED WITHIN TWO MONTHS OF THE FINAL REJECTION. See MPEP 706.07(f).

Extensions of time may be obtained under 37 CFR 1.136(a). The date on which the petition under 37 CFR 1.136(a) and the appropriate extension fee have been filed is the date for purposes of determining the period of extension and the corresponding amount of the fee. The appropriate extension fee under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the shortened statutory period for reply originally set in the final Office action; or (2) as set forth in (b) above, if checked. Any reply received by the Office later than three months after the mailing date of the final rejection, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**NOTICE OF APPEAL**

2. ☐ The Notice of Appeal was filed on \_\_\_\_\_. A brief in compliance with 37 CFR 41.37 must be filed within two months of the date of filing the Notice of Appeal (37 CFR 41.37(a)), or any extension thereof (37 CFR 41.37(e)), to avoid dismissal of the appeal. Since a Notice of Appeal has been filed, any reply must be filed within the time period set forth in 37 CFR 41.37(a).

**AMENDMENTS**

3. ☐ The proposed amendment(s) filed after a final rejection, but prior to the date of filing a brief, will not be entered because  
(a) ☐ They raise new issues that would require further consideration and/or search (see NOTE below);  
(b) ☐ They raise the issue of new matter (see NOTE below);  
(c) ☐ They are not deemed to place the application in better form for appeal by materially reducing or simplifying the issues for appeal; and/or  
(d) ☐ They present additional claims without canceling a corresponding number of finally rejected claims.

NOTE: \_\_\_\_\_. (See 37 CFR 1.116 and 41.33(a)).

4. ☐ The amendments are not in compliance with 37 CFR 1.121. See attached Notice of Non-Compliant Amendment (PTOL-324).  
5. ☐ Applicant's reply has overcome the following rejection(s): \_\_\_\_\_.  
6. ☐ Newly proposed or amended claim(s) \_\_\_\_\_ would be allowable if submitted in a separate, timely filed amendment canceling the non-allowable claim(s).  
7. ☐ For purposes of appeal, the proposed amendment(s): a) ☐ will not be entered, or b) ☐ will be entered and an explanation of how the new or amended claims would be rejected is provided below or appended.  
The status of the claim(s) is (or will be) as follows:  
Claim(s) allowed: \_\_\_\_\_.  
Claim(s) objected to: \_\_\_\_\_.  
Claim(s) rejected: \_\_\_\_\_.  
Claim(s) withdrawn from consideration: \_\_\_\_\_.

**AFFIDAVIT OR OTHER EVIDENCE**

8. ☐ The affidavit or other evidence filed after a final action, but before or on the date of filing a Notice of Appeal will not be entered because applicant failed to provide a showing of good and sufficient reasons why the affidavit or other evidence is necessary and was not earlier presented. See 37 CFR 1.116(e).  
9. ☐ The affidavit or other evidence filed after the date of filing a Notice of Appeal, but prior to the date of filing a brief, will not be entered because the affidavit or other evidence failed to overcome all rejections under appeal and/or appellant fails to provide a showing of good and sufficient reasons why it is necessary and was not earlier presented. See 37 CFR 41.33(d)(1).  
10. ☐ The affidavit or other evidence is entered. An explanation of the status of the claims after entry is below or attached.

**REQUEST FOR RECONSIDERATION/OTHER**

11. ☒ The request for reconsideration has been considered but does NOT place the application in condition for allowance because: applicants have not amended the claims to overcome the rejection.  
12. ☐ Note the attached Information Disclosure Statement(s). (PTO/SB/08) Paper No(s). \_\_\_\_\_.  
13. ☐ Other: \_\_\_\_\_.

RD

Rita J. Desai  
Primary Examiner  
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Addendum to the advisory

The arguments presented does not overcome the rejections.

The 35 USC 112 first paragraph rejection still stands.

The claims 1, 12-14 rejected under 35 USC 112 first also still stands, since applicants arguments are not convincing. Applicants claims have so many R1-R10 substitutions, and if applicants arguments are stating that even similar isomers such as given above are not obvious, then how does one expect all the various large substitutions to be enabled? The prior art ligands also do not have any substituents hence there is very little predictability in the art that these would be enabled. Applicants do not have any examples and hence has not provided any guidance that all these would in fact all be enabled.

Applicants argue that the initial burden is on the examiner to show that the substitutions would in fact change the properties.

Applicants argue that the US "656 publication taught the similar various substitutions for example Fig 49, where R1, R" and R'" are substitutions (e.g., alkyl or aryl) similar to R1-R10 in claim 1.

[0171] These molecules, related to Ir(ppy)<sub>3</sub>, can be formed from commercially available ligands. The R groups can be alkyl or aryl and are preferably in the 3, 4, 7 and/or 8 positions on the ligand (for steric reasons). The compounds should give different color emission and may have different carrier transport rates. Thus, the modifications to the basic Ir(ppy)<sub>3</sub> structure in the three molecules can alter emissive properties in desirable ways.

Applicant's invention is drawn to a red luminescent compound.

See paragraph 0002 on page 1 and paragraph 0013 page 3 of the specification.

[0002] The present invention relates to a red luminescent compound electroluminescent device using the same, and more particularly, to luminescent compound and an organic electroluminescent device using offers improved luminescent efficiency and driving voltage characteristics.

And [0013] It is therefore an object of the present invention to provide a red luminescent

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compound with improved luminescent efficiency, an organic electroluminescent device and an image display using the red luminescent compound.

Thus from the prior art it is evident that the substitutions show different luminescent properties.

Applicants argue

The examiner's reasoning is not sufficient to reject claims. The cited paragraph by the examiner teaches that the modification of the substituents may change the absorption properties. However, it does not say that the change (in the absorption properties) caused by the addition of alkyl or aryl is so significant that undue experiments may be required to determine the properties.

The arguments are not found to be convincing. The various heteroaryls and hetero groups, applicants have not provided the starting materials nor it is well known that changing the substitutions would change the properties. Thus in view of the art applicants need to provide more or else it would be undue experimentation.

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rita J. Desai whose telephone number is 571-272-0684. The examiner can normally be reached on Monday - Friday, flex time..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas McKenzie can be reached on 571-272-0670. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Rita J. Desai  
Primary Examiner  
Art Unit 1625

R.D.  
April 9, 2007

*RJ Desai*  
4/9/07